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1 Locating application data across service discovery domains

Paul Castro, Benjamin Greenstein, Richard Muntz, Chatschik Bisdikian, Parviz Kermani, Maria Papadopoulou
July 2001 MobiCom '01: Proceedings of the 7th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: pdf14.38

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)



The bulk of proposed pervasive computing devices such as PDAs and cellular telephones operate as thin clients within a larger infrastructure. To access services within their local environment, these devices participate in a service discovery protocol ...

2 Defending wireless infrastructure against the challenge of DDoS attacks

Xianjun Geng, Yun Huang, Andrew B. Whinston

June Mobile Networks and Applications, Volume 7 Issue 3
2002

Publisher: Kluwer Academic Publishers

Full text available:  pdf(313.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper addresses possible Distributed Denial-of-Service (DDoS) attacks toward the wireless Internet including the Wireless Extended Internet, the Wireless Portal Network, and the Wireless Ad Hoc network. We propose a conceptual model for defending ...

Keywords: DDoS attack, PBN, wireless ad hoc network, wireless extended internet, wireless infrastructure, wireless portal network

3 A wireless sensor network For structural monitoring

 Ning Xu, Sumit Rangwala, Krishna Kant Chintalapudi, Deepak Ganesan, Alan Broad, Ramesh Govindan, Deborah Estrin
November SenSys '04: Proceedings of the 2nd international conference on Embedded networked sensor systems
2004

Publisher: ACM

Full text available:  pdf(731.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Structural monitoring--the collection and analysis of structural response to ambient or forced excitation--is an important application of networked embedded sensing with significant commercial potential. The first generation of sensor networks for structural ...

Keywords: Wisden, sensor network, structural health monitoring

4 Mobile IP and the IETF

 Charles E. Perkins
April ACM SIGMOBILE Mobile Computing and Communications Review, Volume 6 Issue
2002 2

Publisher: ACM

Full text available:  pdf(59.51 KB)

Additional Information: [full citation](#), [index terms](#)

5 Engineering mobile-agent applications via context-dependent coordination

Giacomo Cabri, Letizia Leonardi, Franco Zambonelli

July ICSE '01: Proceedings of the 23rd International Conference on Software Engineering
2001

Publisher: IEEE Computer Society

Full text available:  pdf (173.80 KB)  Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Mobility introduces peculiar coordination problems in agent-based Internet applications. First, it suggests the exploitation of an infrastructure based on a multiplicity of local interaction spaces. Second, it may require coordination activities to ...

6 Understanding packet delivery performance in dense wireless sensor networks

 Jerry Zhao, Ramesh Govindan

 November SenSys '03: Proceedings of the 1st international conference on Embedded networked sensor systems
2003

Publisher: ACM

Full text available:  pdf (501.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Wireless sensor networks promise fine-grain monitoring in a wide variety of environments. Many of these environments (e.g., indoor environments or habitats) can be harsh for wireless communication. From a networking perspective, the most basic ...

Keywords: low power radio, packet loss, performance measurement

7 ACM SIGMOBILE Mobile Computing and Communications Review: Volume 7 Issue 3

 3

July issue Volume 7 Issue 3
2003

Publisher: ACM

Additional Information: [full citation](#)

8 Wireless integrated network sensors

G. J. Pottie, W. J. Kaiser

May 2000 Communications of the ACM, Volume 43 Issue 5

Publisher: ACM

Full text available:  pdf(303.43 KB)  html(40.24 KB)

Additional Information: [full citation](#), [appendices and supplements](#), [references](#), [cited by](#), [index terms](#)

9 State of the art in Monte Carlo global illumination

Philip Dutré, Henrik Wann Jensen, Jim Arvo, Kavita Bala, Philippe Bekaert, Steve Marschner, Matt Pharr

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:  pdf(5.48 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Realistic image synthesis is increasingly important in areas such as entertainment (movies, special effects and games), design, architecture and more. A common trend in all these areas is the quest for more realistic images of increasingly complex models. ...

10 Self-organized network-layer security in mobile ad hoc networks

Hao Yang, Xiaoqiao Meng, Songwu Lu

September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless security

2002

Publisher: ACM

Full text available:  pdf(226.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Protecting the network layer in a mobile ad hoc network is an important research topic in wireless security. This paper describes our unified network-layer security solution in ad hoc networks, which protects both routing and packet forwarding functionalities ...

Keywords: mobile ad hoc networks, self-organized security

11 Location management for mobile commerce applications in wireless Internet environment

Upkar Varshney

August 2003 ACM Transactions on Internet Technology (TOIT), Volume 3 Issue 3

Publisher: ACM

Full text available:  pdf(630.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

With recent advances in devices, middleware, applications and networking infrastructure, the wireless Internet is becoming a reality. We believe that some of the major drivers of the wireless Internet will be emerging mobile applications such as mobile ...

Keywords: Mobile commerce, infrastructure dependability, location management, mobile applications, satellites, wireless Internet, wireless LANs, wireless multicast

12 The missing link: augmenting biology laboratory notebooks

Wendy E. Mackay, Guillaume Pothier, Catherine Letondal, Kaare Bøegh, Hans Erik Sørensen

October 2002 UIST '02: Proceedings of the 15th annual ACM symposium on User interface software and technology

Publisher: ACM

Full text available:  pdf(814.78 KB)  wmv(258.00 bytes)  mov(258.00 bytes)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Using a participatory design process, we created three prototype augmented laboratory notebooks that provide the missing link between paper, physical artifacts and on-line data. The final a-book combines a graphics tablet and a PDA. The tablet ...

Keywords: SVG, a-book, augmented laboratory note-books, augmented reality, information layers, interaction lens, interactive paper

13 Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield

December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5

Publisher: ACM

Full text available:  pdf(188.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

14 Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield
October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM

Full text available:  pdf(168.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

15 ESCORT: a decentralized and localized access control system for mobile wireless access to secured domains

Jiejun Kong, Shirshanka Das, Edward Tsai, Mario Gerla
September 2003 WiSe '03: Proceedings of the 2nd ACM workshop on Wireless security

Publisher: ACM

Full text available:  pdf(401.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this work we design and implement ESCORT, a *backward compatible, efficient, and secure* access control system, to facilitate mobile wireless access to secured wireless LANs. In mobile environments, a mobile guest may frequently ...

Keywords: decentralized access control, identity privacy, location privacy, mobile privacy, wireless security

16 Brook for GPUs: stream computing on graphics hardware

Ian Buck, Tim Foley, Daniel Horn, Jeremy Sugerman, Kayvon Fatahalian, Mike Houston, Pat Hanrahan
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Papers

Publisher: ACM

Full text available:  pdf(266.63 KB)  mov(21:31)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper, we present Brook for GPUs, a system for general-purpose computation on programmable graphics hardware. Brook extends C to include simple data-parallel constructs, enabling the use of the GPU as a streaming co-processor. We present a compiler ...

Keywords: Data Parallel Computing, GPU Computing, Brook, Programmable Graphics Hardware, Stream Computing

17 DIRAC: a software-based wireless router system

Petros Zerfos, Gary Zhong, Jerry Cheng, Haiyun Luo, Songwu Lu, Jefferey Jia-Ru Li

September 2003 MobiCom '03: Proceedings of the 9th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available:  pdf(335.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Routers are expected to play an important role in the IP-based wireless data network. Although a substantial number of techniques have been proposed to improve wireless network performance under dynamic wireless channel conditions and host mobility, ...

Keywords: distributed router architecture, wireless network

18 A study of source-level compiler algorithms for automatic construction of pre-execution code

Dongkeun Kim, Donald Yeung

August 2004 ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 3

Publisher: ACM

Full text available:  pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Pre-execution is a promising latency tolerance technique that uses one or more helper threads running in spare hardware contexts ahead of the main computation to trigger long-latency memory operations early, hence absorbing their latency on behalf of ...

Keywords: Data prefetching, memory-level parallelism, multithreading, pre-execution, prefetch conversion, program slicing, speculative loop parallelization

19 Beyond the handset: designing for wireless communications usability

Leysia Palen, Marilyn Salzman

June 2002 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 9 Issue 2

Publisher: ACM

Full text available:  pdf(225.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Service-based wireless devices like wireless telephones require users to interact with aspects of the technology beyond the hardware and software of the handset. By entering into contractual relationships with service-providers, and by using network-based ...

Keywords: cell, field study, mobile, qualitative study, social construction of technology, socio-technical systems, usability, wireless telephones

20 Call and response: experiments in sampling the environment

Maxim A. Batalin, Mohammad Rahimi, Yan Yu, Duo Liu, Aman Kansal, Gaurav S. Sukhatme, William J. Kaiser, Mark Hansen, Gregory J. Pottie, Mani Srivastava, Deborah Estrin

November SenSys '04: Proceedings of the 2nd international conference on Embedded networked sensor systems
2004

Publisher: ACM

Full text available:  pdf (1.38 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Monitoring of environmental phenomena with embedded networked sensing confronts the challenges of both unpredictable variability in the spatial distribution of phenomena, coupled with demands for a high spatial sampling rate in three dimensions. For ...

Keywords: adaptive sampling, distributed, mobile robotics, sensor network, task allocation

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